

14 September 1964


MEMORANDUM FOR: Chief, Exploratory Development Laboratory Branch, P&DS  
THROUGH : Chief, Development Branch, P&DS  
SUBJECT : Request for Investigation and Development of Microscope Adjustment Technique

1. The field adjustment and routine maintenance of microscopes, particularly those used for stereo viewing, is an operation calling for techniques beyond those of ordinary mechanical adjustment. Minor optical misalignments are seldom easy to detect, yet result in serious operator eye strain and fatigue when allowed to remain in the instrument. Major adjustments are easily made, but in the limit are reduced to the point allowed by the adjustment technique and equipment. Current field methods have been shown to be inadequate, and a serious need exists for precise adjustment methods.

2. You are therefore requested to investigate this problem, and to develop a technique for properly aligning microscopes, especially providing means for adjustment on microstereoscopes to minimize the differential focus errors when zooming. If special equipment is required, you are requested to furnish detailed engineering specifications and drawings in your final report. The matter of producing such equipment will be deferred until issuance of your preliminary report, and will be decided in discussions with you.

3. The need for this investigation is urgent, and you are requested to have your preliminary report prepared by no later than 9 November 1964.

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Development Branch, P&DS

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